Hurricane Chris - Projected Damage Area

Landfall Is Occurring

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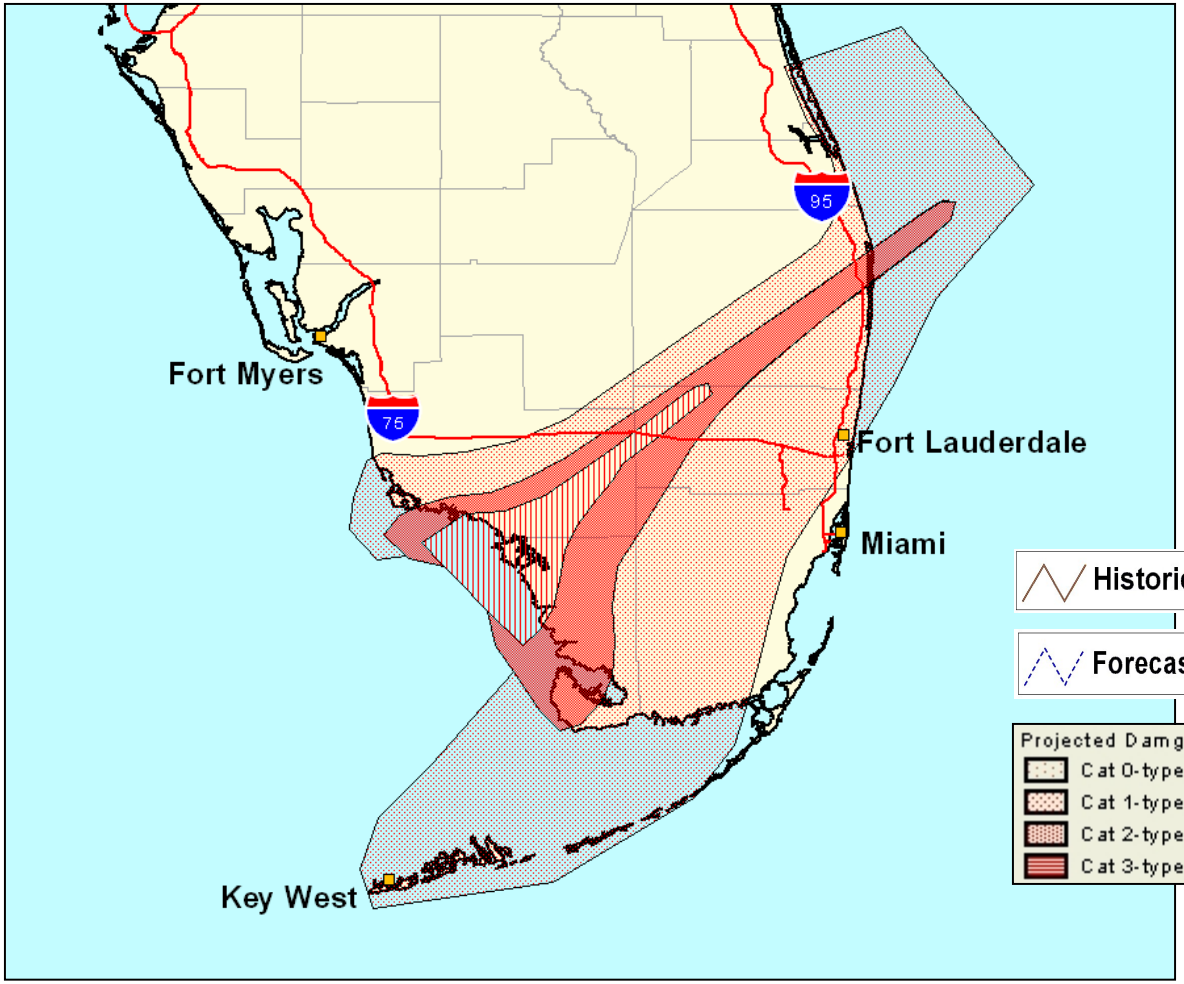


Post Landfall Projected Damage Area

This model is based on a Category 3 storm making landfall south of Naples, FL.

Information provided on this page displays a Category 3 storm making landfall south of Naples, FL. These projections are based on information from the NHC ***(1100 EDT 08/04/2005)*** forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Projected Damage

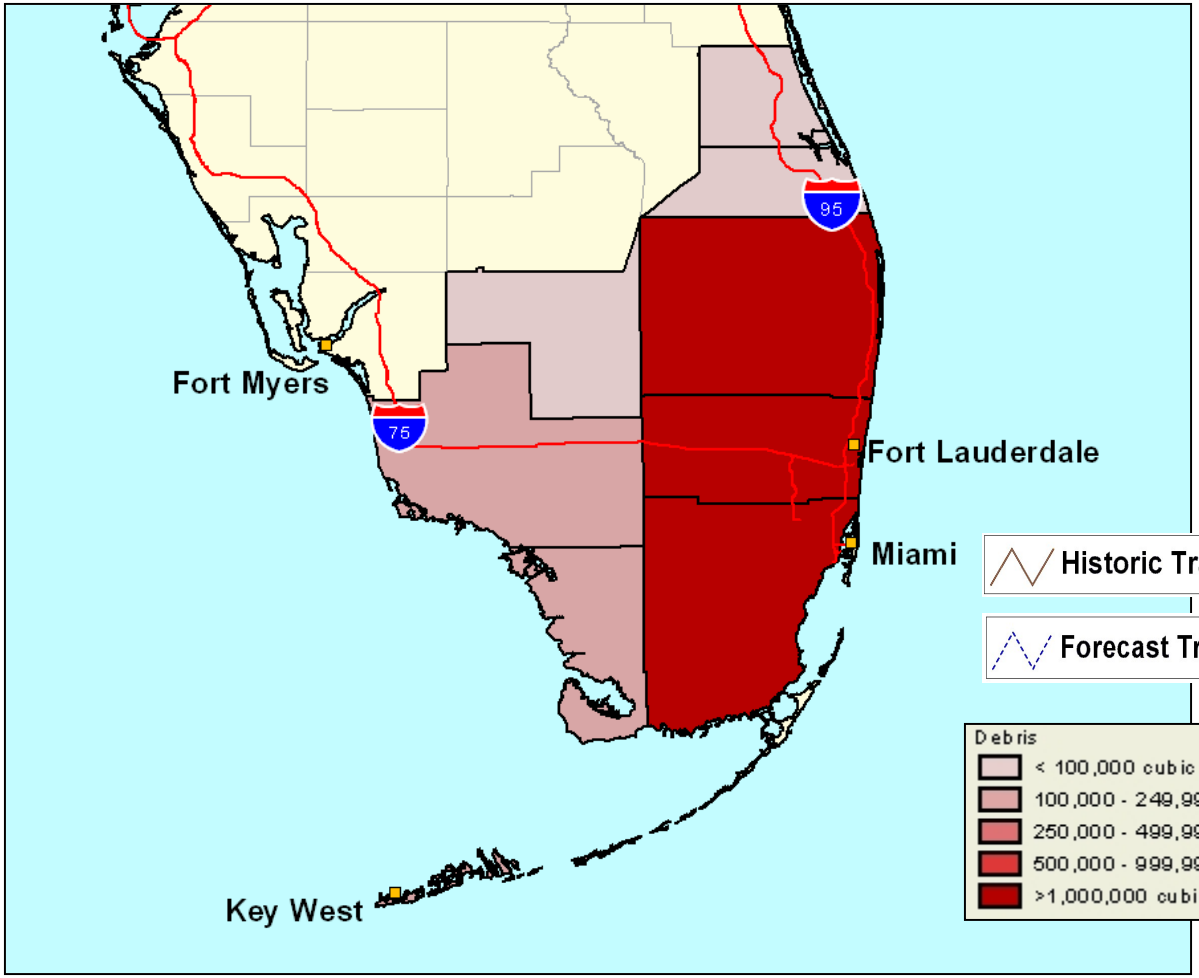
Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Debris Model

Landfall Is Occurring

For Official Use Only!



Post Landfall Debris Model Results

Florida – 5,893,000 yd^3

Model results per county on following page

This model is based on a Category 3 storm making landfall south of Naples, FL.

Information provided on this page displays a Category 3 storm making landfall south of Naples, FL. These projections are based on information from the NHC ***(1100 EDT 08/04/2005)*** forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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US Army Corps of Engineers

Hurricane Chris Debris Model

Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Debris Model

Landfall Is Occurring

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State	County	Cubic Yards per County
Florida		
	Broward	1,880,000
	Collier	231,000
	Dade	1,032,000
	Hendry	1,000
	Martin	98,000
	Monroe	126,000
	Palm Beach	2,464,000
	St Lucie	61,000
TOTAL		5,893,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Debris Model

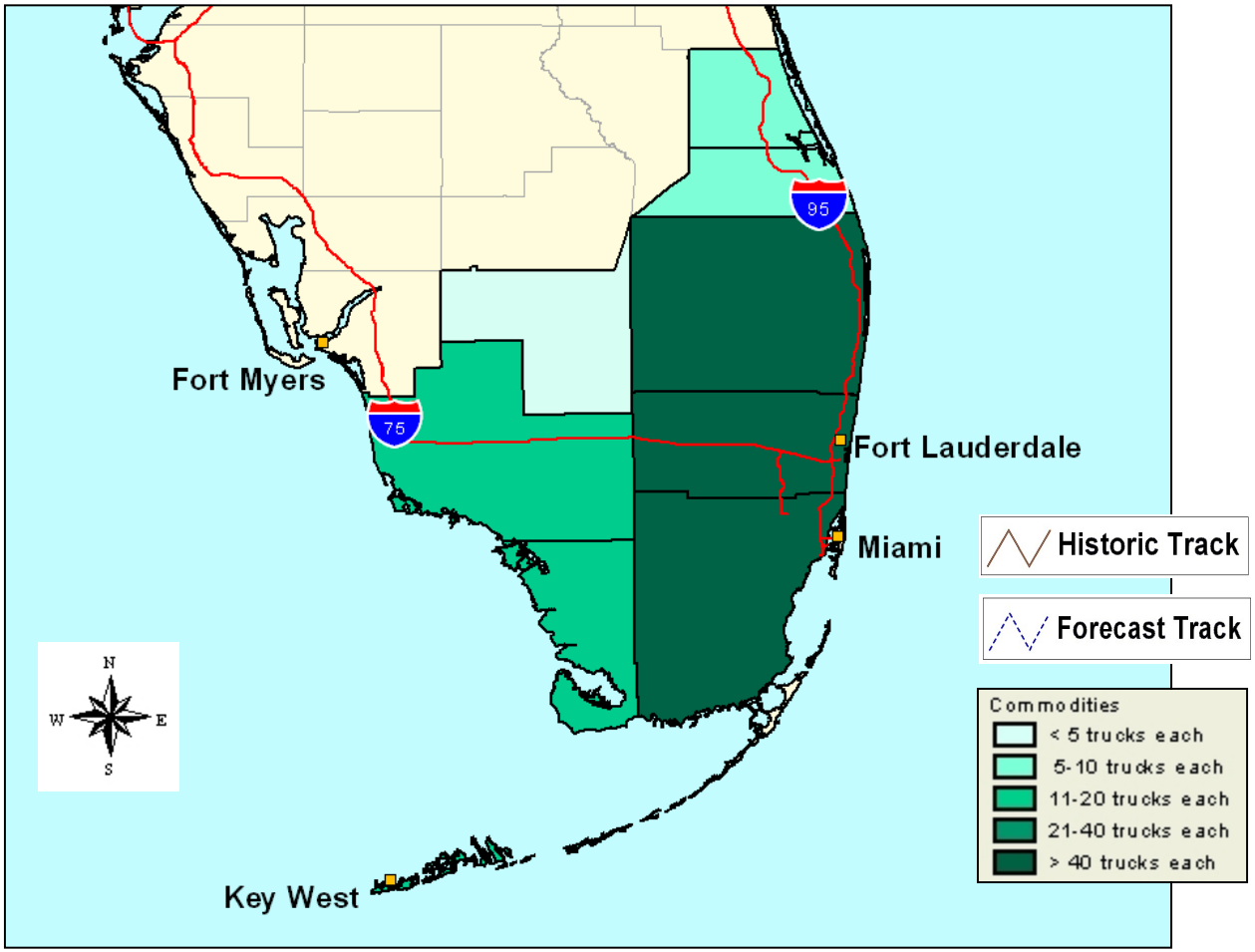
Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Commodities Model

Landfall Is Occurring

For Official Use Only!



Post Landfall Ice/Water Model Results

Florida –
50 Trucks Each Day One
100 Trucks Each Day Two
150 Trucks Each Day Three
205 Trucks Each Ultimate Daily Need

Model results per county on following page

This model is based on a Category 3 storm making landfall south of Naples, FL.

Information provided on this page displays a Category 3 storm making landfall south of Naples, FL. These projections are based on information from the NHC ***(1100 EDT 08/04/2005)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day and 3 liters of water per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Commodities Model

Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Commodities Model

Landfall Is Occurring

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The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day and 3 liters of water per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 30-40% of the resident population affected by Chris will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Commodities Model

Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Population Model

Landfall Is Occurring

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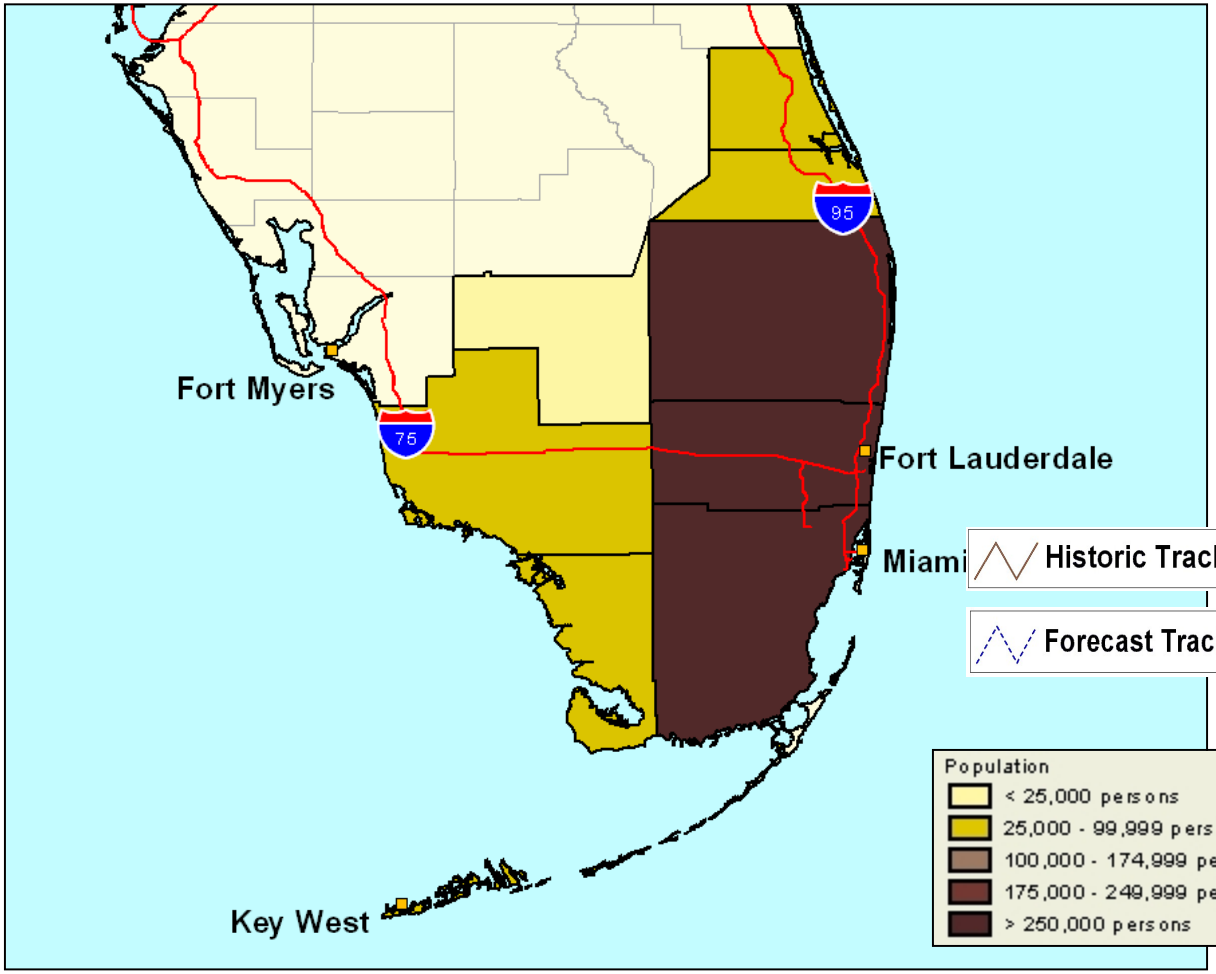

Post Landfall Population Model Results

Florida – 3,854,000 persons

Model results per county on following page

This model is based on a Category 3 storm making landfall south of Naples, FL.

Information provided on this page displays a Category 3 storm making landfall south of Naples, FL. These projections are based on information from the NHC ***(1100 EDT 08/04/2005)*** forecast. The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Population Model

Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Population Model

Landfall Is Occurring

For Official Use Only!

State	County	Population Per County
Florida		
	Broward	1,534,000
	Collier	35,000
	Dade	1,091,000
	Hendry	1,000
	Martin	33,000
	Monroe	57,000
	Palm Beach	1,070,000
	St Lucie	33,000
TOTAL		3,854,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Chris Households Model

Landfall Is Occurring

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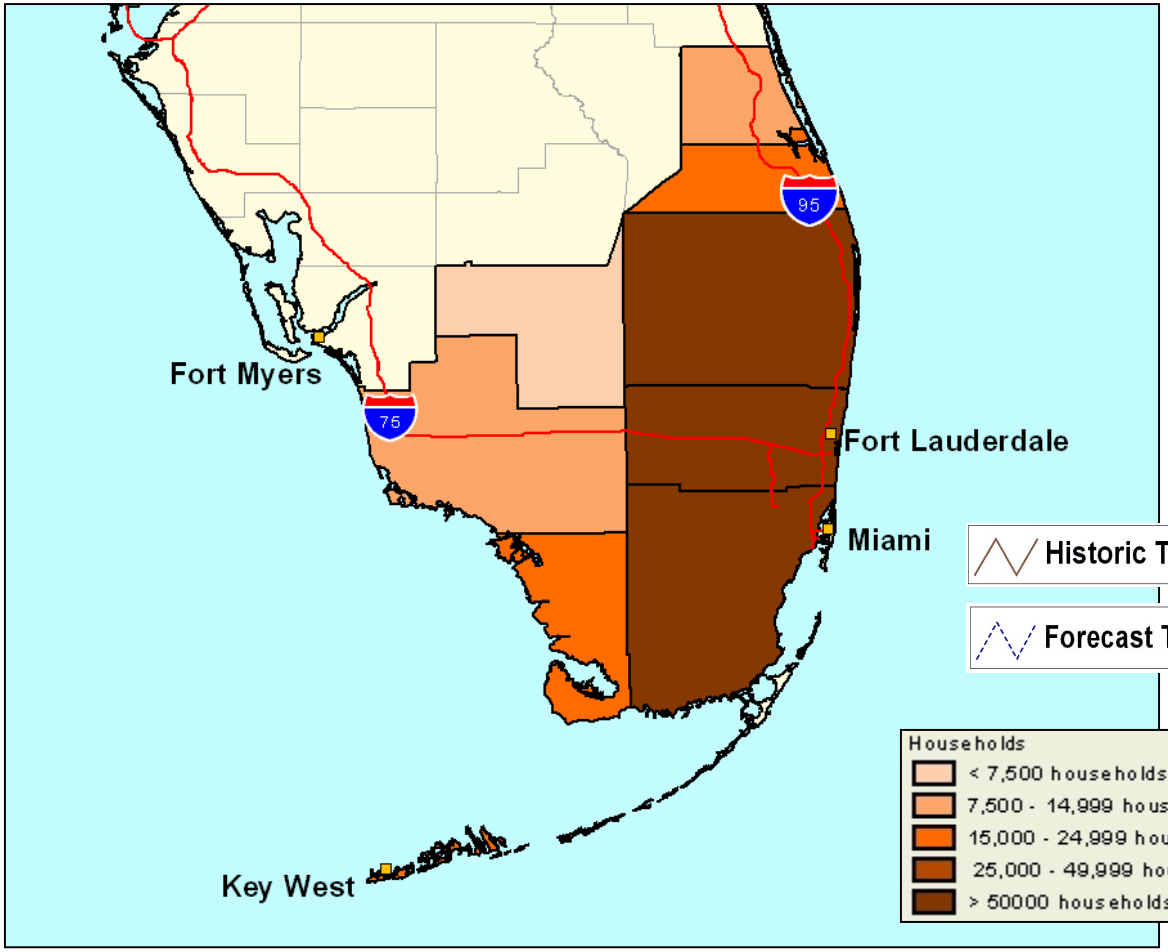


Post Landfall Households Model Results

Florida – 1,479,000 households

Model results per county on following page

This model is based on a Category 3 storm making landfall south of Naples, FL.

Information provided on this page displays a Category 3 storm making landfall south of Naples, FL. These projections are based on information from the NHC ***(1100 EDT 08/04/2005)*** forecast. The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Households Model

Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Households Model

Landfall Is Occurring

For Official Use Only!

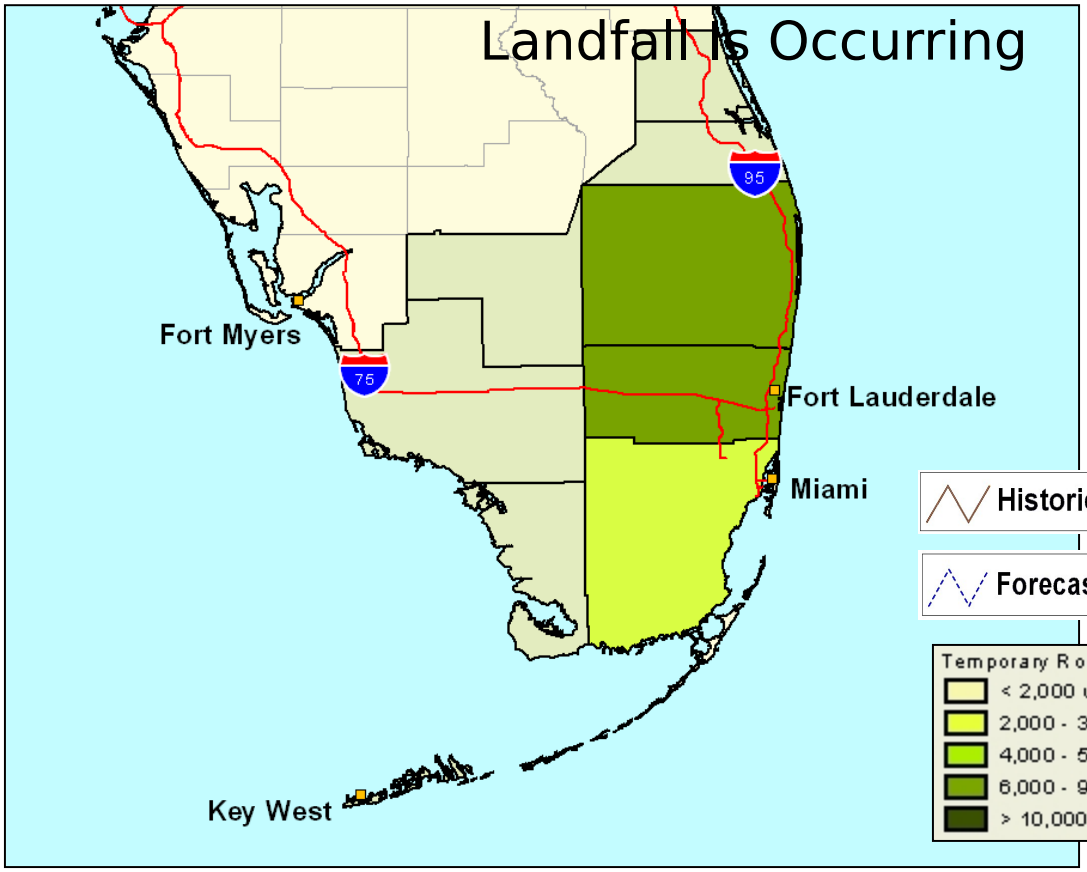
State	County	Households per County
Florida		
	Broward	610,000
	Collier	15,000
	Dade	342,000
	Hendry	1,000
	Martin	16,000
	Monroe	25,000
	Palm Beach	455,000
	St Lucie	15,000
TOTAL		1,479,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Chris Temporary Roofing Model Results

For Official Use Only!



Post Landfall Temporary Roofing Model Results

Florida – 18,400

Model results per county on following page

This model is based on a Category 3 storm making landfall south of Naples, FL.

Information provided on this page displays a Category 3 storm making landfall south of Naples, FL. These projections are based on information from the NHC ***(1100 EDT 08/04/2005)*** forecast. The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind areas, 4% of housing units damaged in CAT 2 wind areas and 8% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Roofing Model

Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Temporary Roofing Model Results

Landfall Is Occurring

For Official Use Only!

State	County	House Units per County
Florida		
	Broward	6,100
	Collier	400
	Dade	3,400
	Hendry	100
	Martin	200
	Monroe	500
	Palm Beach	7,600
	St Lucie	100
TOTAL		18,400

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind areas, 4% of housing units damaged in CAT 2 wind areas and 8% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

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US Army Corps of Engineers

Hurricane Chris Roofing Model

Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Temporary Housing Model Results

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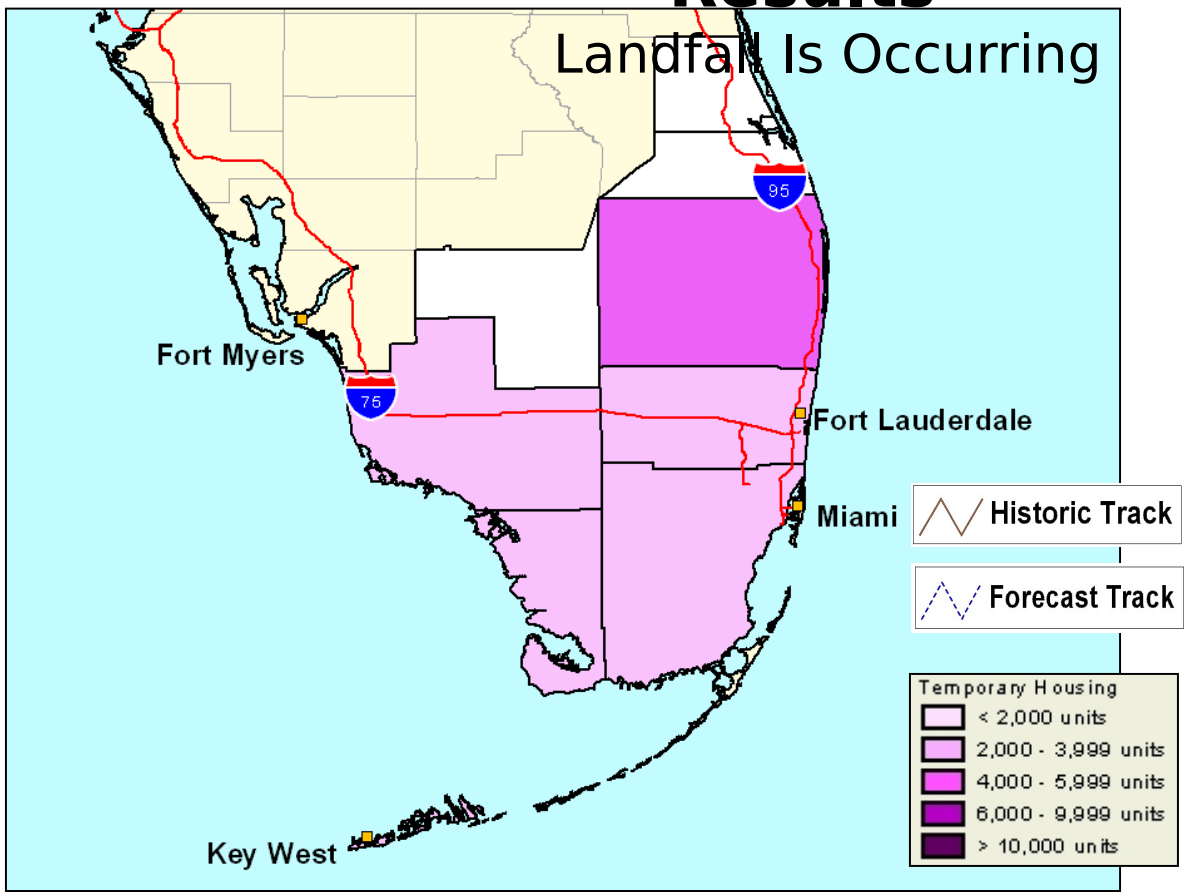

Post Landfall Temporary Housing Model Results

Florida – 2,700

Model results per county on following page

This model is based on a Category 3 storm making landfall south of Naples, FL.

Information provided on this page displays a Category 3 storm making landfall south of Naples, FL. These projections are based on information from the NHC (***1100 EDT 08/04/2005***) forecast.
The amount of temporary housing that may be required is based on no housing need in CAT 1 wind area, 2% of housing units requiring temporary replacement in CAT 2 wind areas and 4% of housing units requiring replacements in Cat 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Housing Model

Generated By:
LaDue and Siemsen, LR 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Chris Temporary Housing Model Results

Landfall Is Occurring

For Official Use Only!

State	County	House Units per County
Florida		
	Broward	100
	Collier	100
	Dade	100
	Hendry	100
	Martin	100
	Monroe	100
	Palm Beach	2,000
	St Lucie	100
TOTAL		2,700

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units requiring replacement in CAT 2 wind areas and 4% of housing units requiring replacement in CAT 3 wind areas.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Chris Housing Model

Generated By:
LaDue and Siemsen, LRL 1300 EDT 08/04/2005

Sources:
HURREVAC
LRL-DEBRIS